107TH CONGRESS
1ST SESSION

S. 883

To ensure the energy self-sufficiency of the United States by 2011, and for other purposes.

IN THE SENATE OF THE UNITED STATES

MAY 15, 2001

Mr. DODD introduced the following bill; which was read twice and referred to the Committee on Energy and Natural Resources

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A BILL

To ensure the energy self-sufficiency of the United States by 2011, and for other purposes.

Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled,

SECTION 1. SHORT TITLE.

This Act may be cited as the ''Energy Independence Act of 2001''.

SEC. 2. DOMESTIC ENERGY SELF-SUFFICIENCY PLAN.

(a) STRATEGIC PLAN.—

(1) IN GENERAL.—Not later than 1 year after the date of enactment of this Act, the Secretary of Energy shall develop and submit to Congress a stra-

tegic plan to ensure that the United States is energy self-sufficient by the year 2011.

(2) RECOMMENDATIONS.—The plan developed under paragraph (1) shall include recommendations for legislative and regulatory actions needed to achieve the goal of the plan described in that paragraph.

(b) AUTHORIZATION OF APPROPRIATIONS.—There is authorized to be appropriated to carry out this section $20,000,000.

SEC. 3. FEDERAL GOVERNMENT FUEL CELL PILOT PROGRAM.

(a) PROGRAM.—The Secretary of Energy shall establish a program for the acquisition, for use at federally owned or operated facilities, of—

(1) not to exceed 100 commercially available 200 kilowatt fuel cell power plants;

(2) not to exceed 20 megawatts of power generated from commercially available fuel cell power plants; or

(3) a combination of the power plants described in paragraphs (1) and (2).

(b) FUNDING.—The Secretary shall provide funding and any other necessary assistance for the purchase, site engineering, installation, startup, training, operation, and

maintenance costs associated with the acquisition of the power plants under subsection (a).

(c) DOMESTIC ASSEMBLY.—All fuel cell systems and fuel cell stacks in power plants acquired, or from which power is acquired, under subsection (a) shall be assembled in the United States.

(d) SITE SELECTION.—In the selection of a federally owned or operated facility as a site for the location of a power plant acquired under this section, or as a site to receive power acquired under this section, priority shall be given to a site with 1 or more of the following attributes:

(1) A location in an area classified as a nonattainment area under title I of the Clean Air Act (42 U.S.C. 7401 et seq.).

(2) Computer or electronic operations that are sensitive to power supply disruptions.

(3) A need for a reliable, uninterrupted power supply.

(4) A remote location or other factors requiring off-grid power generation.

(5) Critical manufacturing or other activities that support national security efforts.

(e) AUTHORIZATION OF APPROPRIATIONS.—There is authorized to be appropriated to carry out this section

$140,000,000 for the period of fiscal years 2002 through 2004.

SEC. 4. PROTON EXCHANGE MEMBRANE DEMONSTRATION PROGRAMS.

(a) IN GENERAL.—

(1) ESTABLISHMENT.—The President, in coordination with the Secretary of Energy, the Secretary of Transportation, the Secretary of Defense, and the Secretary of Housing and Urban Development, shall establish a program for the demonstration of fuel cell proton exchange membrane technology in the areas of responsibility of those Secretaries with respect to commercial, residential, and transportation applications, including buses.

(2) FOCUS.—The program established under paragraph (1) shall focus specifically on promoting the application of, and improving manufacturing production and processes for, proton exchange membrane fuel cell technology.

(3) AUTHORIZATION OF APPROPRIATIONS.—There is authorized to be appropriated to carry out this subsection $140,000,000 for the period of fiscal years 2002 through 2004.

(b) BUS DEMONSTRATION PROGRAM.—

(1) ESTABLISHMENT.—The President, in coordination with the Secretary of Energy and the Secretary of Transportation, shall establish a comprehensive proton exchange membrane fuel cell bus demonstration program to address hydrogen production, storage, and use in transit bus applications.

(2) COMPONENTS.—The program established under paragraph (1) shall—

(A) cover all aspects of the introduction of proton exchange membrane fuel cells; and

(B) include provisions for—

(i) the development, installation, and operation of a hydrogen delivery system located on-site at transit bus terminals;

(ii) the development, installation, and operation of—

(I) on-site storage associated with the hydrogen delivery systems; and

(II) storage tank systems incorporated into the structure of a transit bus;

(iii) the demonstration of the use of hydrogen as a practical, safe, renewable

energy source in a highly efficient, zero-emission power system for buses;

(iv) the development of a hydrogen proton exchange membrane fuel cell power system that is confirmed and verified as being compatible with transit bus application requirements;

(v) durability testing of the fuel cell bus at a national testing facility;

(vi) the identification and implementation of necessary codes and standards for the safe use of hydrogen as a fuel suitable for bus application, including the fuel cell power system and related operational facilities;

(vii) the identification and implementation of maintenance and overhaul requirements for hydrogen proton exchange membrane fuel cell transit buses; and

(viii) the completion of a fleet vehicle evaluation program by bus operators along normal transit routes to provide equipment manufacturers and transit operators with the necessary analyses to enable operation of the hydrogen proton exchange mem-

brane fuel cell bus under a range of operating environments.

(3) DOMESTIC ASSEMBLY.—All fuel cell systems and fuel cell stacks in power plants acquired, or from which power is acquired, under paragraph (1) shall be assembled in the United States.

(4) AUTHORIZATION OF APPROPRIATIONS.—There is authorized to be appropriated to carry out this subsection $150,000,000 for the period of fiscal years 2002 through 2004.

SEC. 5. FEDERAL VEHICLES.

(a) IN GENERAL.—The head of each agency of the Federal Government that maintains a fleet of motor vehicles shall develop, implement by not later than October 1, 2006, and carry out through September 30, 2011, a plan for a transition of the fleet to vehicles powered by fuel cell technology.

(b) REQUIREMENTS OF PLAN.—A plan developed under subsection (a) shall—

(1) incorporate and build on the results of completed and ongoing Federal demonstration programs, including the program established under section 4; and

(2) include additional demonstration programs and pilot programs as the head of the applicable

agency determines to be necessary to test or investigate available technologies and transition procedures.

SEC. 6. LIFE-CYCLE COST BENEFIT ANALYSIS.

Any life-cycle cost benefit analysis carried out by a Federal agency under this Act that concerns an investment in a product, a service, construction, or any other project shall include an analysis of environmental and power reliability factors.

SEC. 7. STATE AND LOCAL GOVERNMENT INCENTIVES.

(a) GRANT PROGRAM.—

(1) IN GENERAL.—The Secretary of Energy shall establish a program for to make grants to State or local governments for the use of fuel cell technology in meeting energy requirements of the State or local governments, including the use of fuel cell technology as a source of power for motor vehicles.

(2) COST SHARING.—The Federal share of the cost of any project or activity funded with a grant under this section shall not exceed 90 percent.

(b) AUTHORIZATION OF APPROPRIATIONS.—There is authorized to be appropriated to carry out this section $110,000,000 for each of fiscal years 2002 through 2006.

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